7AF7
7AG7

RCA

7AF7
MEDIUM-MU TWIN TRIODE

Heater, for Unipotential Cathode:		
Voltage	6.3□	ac or dc volts
Current	0.3□□	amp

The 7AF7 is the same as the 14AF7 except for heater rating.

□ Nominal voltage = 7.0 volts. □□ Nominal current = 0.32 ampere.

7AG7
SHARP-CUTOFF PENTODE

GENERAL DATA

Electrical:

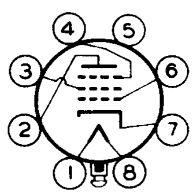
Heater, for Unipotential Cathode:		
Voltage	6.3□	ac or dc volts
Current	0.15□□	amp
Direct Interelectrode Capacitances:○		
Grid No.1 to Plate	0.005 max.	μμf
Input	7	μμf
Output	6	μμf

○ With external shield connected to cathode.

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-25/32"
Maximum Seated Length	2-1/4"
Maximum Diameter	1-3/16"
Bulb	T-9
Base	Lock-in 8-Pin
Basing Designation for BOTTOM VIEW	8V

Pin 1 - Heater
Pin 2 - Plate
Pin 3 - Grid No.2
Pin 4 - Grid No.3
Pin 5 - Internal Shield



Pin 6 - Grid No.1
Pin 7 - Cathode
Pin 8 - Heater

Plug - Base Shell

AMPLIFIER - Class A_1

Maximum Ratings, ***Design-Center Values*:**

PLATE VOLTAGE	300 max.	volts
GRID-No.2 (SCREEN) VOLTAGE	300 max.	volts
PLATE DISSIPATION	2 max.	watts
GRID-No.2 DISSIPATION	0.75 max.	watt
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Negative bias value	1 min.	volt
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

□ Nominal voltage = 7.0 volts. □□ Nominal current = 0.16 ampere.

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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SHARP-CUTOFF PENTODE

Typical Operation and Characteristics:

Plate Voltage	250	volts
Grid No.3 (Suppressor)	Connected to cathode at socket	
Internal Shield	Connected to cathode at socket	
Grid-No.2 Voltage	250	volts
Cathode-Bias Resistor*	250	ohms
Plate Resistance (Approx.)	0.75	megohm
Transconductance	4200	μmhos
Grid-No.1 Bias (Approx.) for plate current of 10 μa	-10	volts
Plate Current	6	ma
Grid-No.2 Current	2	ma

* Fixed-bias operation is not recommended.

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